

## Surface-modified magnetic human cells for scaffold-free tissue engineering

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### Abstract

We report the magnetically-facilitated scaffold-free assembly of lung tissue mimicking two-layered multicellular clusters. Polymer-stabilized magnetic nanoparticles were deposited on surfaces of viable human cells (A549 and skin fibroblasts), allowing the formation of two-layered porous tissue prototypes. © 2013 The Royal Society of Chemistry.

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